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OM nucleic - nucleic search, using sw model

Run on: July 22, 2004, 12:24:55 ; Search time 126 Seconds  
(without alignments)  
6857.607 Million cell updates/sec

Title: US-09-762-491-5  
Perfect score: 1557  
Sequence: 1 atgctcgctgcaagttatcg.....ataatcatagcggaataa 1557

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents NA:  
1: /cgn2\_6/prodata/2/ina/5A\_COMB.seq:\*  
2: /cgn2\_6/prodata/2/ina/5B\_COMB.seq:\*  
3: /cgn2\_6/prodata/2/ina/6A\_COMB.seq:\*  
4: /cgn2\_6/prodata/2/ina/6B\_COMB.seq:\*  
5: /cgn2\_6/prodata/2/ina/PCUS\_COMB.seq:\*  
6: /cgn2\_6/prodata/2/ina/backfile1.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysts of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1548.6	99.5	1557	3	US-09-329-418-2
2	1548.6	99.5	1557	3	US-09-531-914-2
3	1526.4	98.0	1873	3	US-09-329-418-1
4	1526.4	98.0	1873	3	US-09-531-914-1
5	1487	95.5	1697	4	US-09-345-473B-7
6	334.2	21.5	509	4	US-09-023-655-558
7	295.4	19.0	308	4	US-09-023-655-826
8	259.2	16.6	264	4	US-09-016-434-980
9	107.4	6.9	2355	4	US-09-781-882-3
10	107.4	6.9	3860	4	US-09-781-882-1
11	96.8	6.2	1774	4	US-09-312-283C-403
12	96.8	6.2	2370	4	US-09-509-802-1
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20	56.2	3.6	1461	3	US-09-344-001-1
21	53.4	3.4	2181	4	US-09-417-197-70
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23	53.4	3.4	2610	3	US-09-091-058-1
24	53.4	3.4	2610	3	US-09-023-655-1206
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28	52.6	3.4	1620	4	US-09-207-359B-3	Sequence 3, App11
29	52.6	3.4	1620	4	US-09-340-620A-3	Sequence 3, App11
30	52.6	3.4	1620	4	US-09-865-364-3	Sequence 2, App11
31	52.6	3.4	1931	3	US-09-019-942-2	Sequence 2, App11
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38	52.6	3.4	1931	4	US-09-748-537-2	Sequence 2, App11
39	52.6	3.4	2501	4	US-09-920-663-3	Sequence 3, App11
40	52.6	3.4	2502	4	US-09-069-023-2	Sequence 2, App11
41	51.6	3.3	906	4	US-09-206-166-4	Sequence 2, App11
42	51.4	3.3	2505	4	US-09-458-457-9	Sequence 9, App11
43	51.4	3.3	2505	4	US-09-947-199A-9	Sequence 9, App11
44	51.4	3.3	3026	4	US-09-458-457-7	Sequence 7, App11
45	51.4	3.3	3026	4	US-09-947-199A-7	Sequence 7, App11

## ALIGNMENTS

RESULT 1  
US-09-329-418-2

; Sequence 2, Application US/09329418  
; Patent No. 6096539  
; GENERAL INFORMATION:  
; APPLICANT: ZENECA Limited  
; TITLE OF INVENTION: PROTEIN ACTIVATOR OF APOPTOSIS  
; FILE REFERENCE: PHM 70536  
; CURRENT APPLICATION NUMBER: US/09/329,418  
; NUMBER OF SEQ ID NOS: 39  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 2  
; LENGTH: 1557  
; TYPE: DNA  
; ORGANISM: Homo Sapiens  
US-09-329-418-2

QY	1	ATGTCGTGCTCAAGTTATGCGCCAGCGGTGCCCCCGCCCTTGTCATCGAGAA	60	Sequence 2, App11
DB	1	ATGTCGTGCTCAAGTTATGCGCCAGCGGTGCCCCCGCCCTTGTCATCGAGAA	60	Sequence 2, App11
QY	61	CTGAGAACCAAGAGCTGCTGCGCAAAAGCGGTTTCGCAAGTTCGGGCGCAACAT	120	Sequence 1, App11
DB	61	CTGAGAACCAAGAGCTGCTGCGCAAAAGCGGTTTCGCAAGTTCGGGCGCAACAT	120	Sequence 1, App11
QY	121	AGGAATGGGGCTACATGTCGCGTCAAGTTCGTAATTCGAAGCGCATTCAGAGAG	180	Sequence 826, App
DB	121	AGGAATGGGGCTACATGTCGCGTCAAGTTCGTAATTCGAAGCGCATTCAGAGAG	180	Sequence 826, App
QY	181	GTCAGAGCCATGCAAGTTCGTAACGAATTCGTTGCGCTAGAAAGGGTTATCGAG	240	Sequence 980, App
DB	181	GTCAGAGCCATGCAAGTTCGTAACGAATTCGTTGCGCTAGAAAGGGTTATCGAG	240	Sequence 980, App
QY	241	AAGGTAACTGGAGCAAGATCCCAAGCGGCTTGCTGATCAATTCATGAGAAAGCG	300	Sequence 9, App11
DB	241	AAGGTAACTGGAGCAAGATCCCAAGCGGCTTGCTGATCAATTCATGAGAAAGCG	300	Sequence 9, App11
QY	301	TCCCTGTGCGGCTGCTGAGTCCAGTCCCTCGGCGCTGCTTGTGCGGCGCG	360	Sequence 66, App1
DB	301	TCCCTGTGCGGCTGCTGAGTCCAGTCCCTCGGCGCTGCTTGTGCGGCGCG	360	Sequence 66, App1
QY	361	CTGAAAGAGTGGTCTGGAGTGTTCCTGACGACCAAGAACCGGTGCTCTGAC	420	Sequence 66, App1
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 DB 481 TTTGGCTGTCCACATTTTCAGGAGGCTCAGTCAGGAGCAGGGTCCGGGAGCCAGG 540  
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 DB 541 GGCACCTGGGCTACTTGGCCCCAGACCTGTTTAAAGTAAACCGGAGCCCTCCCA 600  
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 DB 601 GCCAGTGAAGCTTACAGCTTCCGAGATCCATATGTGGGAGTCTTGTGGAAGAGATT 660  
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 DB 661 GAGTTCACCAACCGAACCATCACTCTGTGTACGAGAGGTGTGACAGAGCAGGAGCCGCT 720  
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 DB 961 GGCACAGAGGAGACAGAAATGATGAGCTTTAGAGAACATAGAAACCCAGACTCTGCT 1020  
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 DB 1201 AACTCAACTTTTCAAGAACAGATGCGCAGCCTTCACTCACTGAAACCAAGTCTTGA 1260  
 QY 1261 CCCCGAGGAGATCAGGGGAGCTGAGAGACAGGAGCACTGCTCTGAGAGCCCGGAG 1320  
 DB 1261 CCCCGAGGAGATCAGGGGAGCTGAGAGACAGGAGCACTGCTCTGAGAGCCCGGAG 1320  
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 DB 1321 CCAAAATCCAGTAAACAGGGGAGCCGCTGCTTAAATATATACATGCTCTGAGGAGT 1380  
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 DB 1381 GAGAGCAACAACTACTTGACTATGCAACAGACACTGCTTCCCAATGAGGAGTGGCA 1440  
 QY 1441 CCTTGGGAGAGGGGAGGAGCTTGGAGACCCCTCCACAGTATGTTCCAGAGAGGCTCT 1500  
 DB 1441 CCTTGGGAGAGGGGAGGAGCTTGGAGACCCCTCCACAGTATGTTCCAGAGAGGCTCT 1500  
 QY 1501 AAGATCTGAAGCTGAGAGCAGGAGCAAGGAGTGTATATCATAGCGGAGAAATTA 1557

DB 1501 AAGATCTGAAGCTGAGAGCAGGAGCAAGGAGTGTATATCATAGCGGAGAAATTA 1557  
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 US-09-531-914-2  
 ; Sequence 2, Application US/09531914  
 ; Patent No. 6267956  
 ; GENERAL INFORMATION:  
 ; APPLICANT: ZENECA Limited  
 ; TITLE OF INVENTION: PROTEIN ACTIVATOR OF APOPTOSIS  
 ; FILE REFERENCE: PHM.70536  
 ; CURRENT APPLICATION NUMBER: US/09/531,914  
 ; PRIORITY FILING DATE: 2000-03-21  
 ; PRIOR APPLICATION NUMBER: 09/329,418  
 ; NUMBER OF SEQ ID NOS: 39  
 ; SOFTWARE: FASTSEQ for Windows Version 3.0  
 ; SEQ ID NO 2  
 ; LENGTH: 1557  
 ; TYPE: DNA  
 ; ORGANISM: Homo Sapiens  
 ; US-09-531-914-2  
 Query Match 99.5%; Score 1548.6; DB 3; Length 1557;  
 Best Local Similarity 99.6%; Pred. No. 0;  
 Matches 1551; Conservative 1; Mismatches 5; Indels 0; Gaps 0;  
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 DB 61 CTGAGAACCAAGAGCTGTGGGAAAGAGGGTTTCCGACAGTGTCCGGGCGCAAT 120  
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 DB 181 GTCAAGGCGCATGCAAGTCTGATATCAATTCGTGTGCGCTTGAAGGGGTTATCGAG 240  
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 DB 241 AAGGTGAATCTGGACCAAGATTCGAAAGCCGCTCTGTGATATTAATATGAGAAAGCGC 300  
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 DB 301 TCCCTGTGGGGGCTGCTGACAGTCCAGTGCCTCGGCTCTGAGCGCTCTTGTGCGGCTG 360  
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Qy      781 CTAAATGAGTCTGCTGAGAGAGTGAAGCCCAAGACAGACCCCTCTCCAGGAATGCTTA 840
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Qy      841 CCAAAAATGATGAGTCTCTCCAGATGTGTAGAGAACATATGATGCTGTCTGTCCAG 900
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Qy      901 GTAAAGATTTCTGTCTGCTCACTCAAGAGACATATGAGATTTTCTATCCAGAGTCA 960
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Qy      1081 GTTCTTAAATAATGCCGAGCTCTTACAAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1140
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Qy      1141 CAAGCTGAGACAGAGAGACATCTTCAATGTGATGTGAGAGAGAGAGAGAGAGAGAG 1200
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Qy      1261 CCCCCAGAGAGATCAAGGGGGCTGAGAGACAAAGCATATGCTGCTGAGAGAGAGAG 1320
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Qy      1381 GGAGACAACTACTTGAATGCAACAGACAACTGCTGCTGCTGCTGCTGCTGCTGCTG 1440
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RESULT 3  
US-09-329-418-1

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; Sequence 1, Application US/09329418
; Patent No. 6096539
; GENERAL INFORMATION:
; APPLICANT: ZENECA Limited
; TITLE OF INVENTION: PROTEIN ACTIVATOR OF APOPTOSIS
; FILE REFERENCE: PHM 70536
; CURRENT APPLICATION NUMBER: US/09/329,418
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1

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; LENGTH: 1873
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-09-329-418-1
Query Match      98.0%; Score 1526.4; DB 3; Length 1873;
Best Local Similarity 99.1%; Pred. No. 0;
Matches 1546; Conservative 0; Mismatches 11; Indels 3; Gaps 1;
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Qy      61 CTGGAAGACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 120
Db      225 CTGGAAGACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 284
Qy      121 AGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 180
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Qy      181 GTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 240
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Db      525 CTGCTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 584
Qy      418 CACGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 477
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Db      645 GATTTTGGCTGTGCAATTTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 704
Qy      538 GGGGGACCTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 597
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Qy      778 GAGCTAATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 837
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Qy      838 CTACCAAAAAATGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 897
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RESULT 4  
 US-09-531-914-1  
 ; Sequence 1, Application US/09531914  
 ; Patent No. 6267956  
 ; GENERAL INFORMATION:  
 ; APPLICANT: ZENECA Limited  
 ; TITLE OF INVENTION: PROTEIN ACTIVATOR OF APOPTOSIS  
 ; FILE REFERENCE: PHM 70536  
 ; CURRENT APPLICATION NUMBER: US/09/531,914  
 ; CURRENT FILING DATE: 2000-03-21  
 ; PRIOR APPLICATION NUMBER: 09/329,418  
 ; NUMBER OF SEQ ID NOS: 39  
 ; SOFTWARE: FastSeq for Windows Version 3.0  
 ; SEQ ID NO 1  
 ; LENGTH: 1873  
 ; TYPE: DNA  
 ; ORGANISM: Homo Sapiens  
 US-09-531-914-1

Query Match 98.0%; Score 1526.4; DB 3; Length 1873;  
 Best Local Similarity 99.1%; Pred. No. 0;  
 Matches 1546; Conservative 0; Mismatches 11; Indels 3; Gaps 1;

QY 1 ARGGTGCTGCTCAAGTTATGAGCCAGAGGAGCCCGCCCTTGCTGATCCATCGAGAA 60  
 DB 165 ATGTCTGCTGCTCAAGTTATGAGCCAGAGGAGCCCGCCCTTGCTGATCCATCGAGAA 224  
 QY 61 CTGAGAACACAGAGCTCGTCCGCAAAAGACGGGTTTCGAGCAAGTGTTCGGGCGCAACAT 120  
 DB 225 CTGAGAACACAGAGCTCGTCCGCAAAAGGCGGTTTCGAGCAAGTGTTCGGGCGCAACAT 284

QY 121 AGAAGTGGGGCTACGATGTGGCGGTCAAGATCGTAAACTCGAAGCGATATCCAGGAG 180  
 DB 285 AGAAGTGGGGCTACGATGTGGCGGTCAAGATCGTAAACTCGAAGCGATATCCAGGAG 344  
 QY 181 GTCAAGGCCATGGCAAGCTTGGATTAACGAATTGCTGTTGGGCTTAAGAGGGTTATGAG 240  
 DB 345 GTCAAGGCCATGGCAAGCTTGGATTAACGAATTGCTGTTGGGCTTAAGAGGGTTATGAG 404  
 QY 241 AAGCT---GAACTGGAGACCAAGATCCCAAGCGGCTCGGAGCTAAATTCATGAGAAC 297  
 DB 405 AAGCTCGGCGGCTGAGCCCAAGATCCCAAGCGGCTCGGAGCTAAATTCATGAGAAC 464  
 QY 298 GGCTCCCTGTGCGGGCTGCTGCACTCCAGTCCCTCGGCTCGGCTCGGCTCGGCTCGG 357  
 DB 465 GGCTCCCTGTGCGGGCTGCTGCACTCCAGTCCCTCGGCTCGGCTCGGCTCGGCTCGG 524  
 QY 358 CTGCTAAAGAGATGTGTGCTTGGATGTTTAACTCTGACGACCAAGAACCCGGTCTCTG 417  
 DB 525 CTGCTAAAGAGATGTGTGCTTGGATGTTTAACTCTGACGACCAAGAACCCGGTCTCTG 584  
 QY 418 CACCGGAGCTCAAGCCATCCAAAGTCTCCGCGGACCCCAAGGCTGCAAGTCAAGCTGCA 477  
 DB 585 CACCGGAGCTCAAGCCATCCAAAGTCTCCGCGGACCCCAAGGCTGCAAGTCAAGCTGCA 644  
 QY 478 GATTTGGCTGTCCACATTTCAAGGAGGCTCAGTCAAGGAGCAGGGTCCGGGAGCCA 537  
 DB 645 GATTTGGCTGTCCACATTTCAAGGAGGCTCAGTCAAGGAGCAGGGTCCGGGAGCCA 704  
 QY 538 GGGGGACCTCTGGGCTTACTTGGCCCAAGACTGTTGTTAACTGTAACCGAGAGCTCC 597  
 DB 705 GGGGGACCTCTGGGCTTACTTGGCCCAAGACTGTTGTTAACTGTAACCGAGAGCTCC 764  
 QY 598 ACAACCATGACGCTCAACGTTGGGATCCTAATGTGGGAGAGCTTGGTGAAGAGAA 657  
 DB 765 ACAACCATGACGCTCAACGTTGGGATCCTAATGTGGGAGAGCTTGGTGAAGAGAA 824  
 QY 658 GTTGAAGTCCCAACCGAACCATCACTGCTGTAACGAAGCAGTGTCCAAACAGGACAGCCG 717  
 DB 825 GTTGAAGTCCCAACCGAACCATCACTGCTGTAACGAAGCAGTGTCCAAACAGGACAGCCG 884  
 QY 718 CTTTCAATTGAGTGAAGTGGCCCAAGCCGGGCTTGAAGTCTCCGGCTTGAAGACTGAG 777  
 DB 885 CTTTCAATTGAGTGAAGTGGCCCAAGCCGGGCTTGAAGTCTCCGGCTTGAAGACTGAG 944  
 QY 778 GAGCTAATGAGAGCTCTGCTGAGAGAGAGGCAAGGACAGACCTCTCCAGAAATGC 837  
 DB 945 GAGCTAATGAGAGCTCTGCTGAGAGAGAGGCAAGGACAGACCTCTCCAGAAATGC 1004  
 QY 838 CTACCAAAAACCTGATGAAGTCTTCCAGATGCTGAGAGCAATATGATGATGCTGTCTCC 897  
 DB 1005 CTACCAAAAACCTGATGAAGTCTTCCAGATGCTGAGAGCAATATGATGATGCTGTCTCC 1064  
 QY 898 ACGGTAAAGATTTCTGTCTCAAGTCAAGAGCAAGCAATAGAGATTTTCTATCCAGAG 957  
 DB 1065 ACGGTAAAGATTTCTGTCTCAAGTCAAGAGCAAGCAATAGAGATTTTCTATCCAGAG 1124  
 QY 958 TCAGGCCAAGAGGAGCAAGAAATGATGCTTTAGAGAAACCATAGAAACCAAGACTCT 1017  
 DB 1125 TCAGGCCAAGAGGAGCAAGAAATGATGCTTTAGAGAAACCATAGAAACCAAGACTCT 1184  
 QY 1018 CGTAATGATGTCATGCTTTCTGAGGCTAAACAATACTAGAGAGCTCTCCAGC 1077  
 DB 1185 CGTAATGATGTCATGCTTTCTGAGGCTAAACAATACTAGAGAGCTCTCCAGC 1244  
 QY 1078 TCTGTTCTTAAATAATGCCCCAGCTTACCAAGAGAGCAGGCAAGAGAGAGCTT 1137  
 DB 1245 TCTGTTCTTAAATAATGCCCCAGCTTACCAAGAGAGCAGGCAAGAGAGAGCTT 1304  
 QY 1138 CCAAGAGCTTGAGAGAGGAGCAATCTCAGATTGATGAGCCCAACTCCCAAGCTCA 1197  
 DB 1305 CCAAGAGCTTGAGAGAGGAGCAATCTCAGATTGATGAGCCCAACTCCCAAGCTCA 1364  
 QY 1198 GAGACCTCAACTTTAGAGAAACAGATGCCCCAGCTTCACTCACTGAGAACCAAGTCT 1257

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Db      1365  GAGACTCTCACTTTCAGAAAACGAGATGCCAGCCCTCACTCAACTGAAACCAAGCTCT 1424
Qy      1258  GGAACCCGAGGAAATCAGGGGGCTGAGAGCAAGGAGTAACTGTCTTGACAGACCCCG 1317
Db      1425  GGAACCCGAGGAAATCAGGGGGCTGAGAGCAAGGAGTAACTGTCTTGACAGACCCCG 1484
Qy      1318  GAGCCAAATCCAGTAAACAGGGCGACCGCTCTGTTAACTATACACTGTCTTGAGGAGCA 1377
Db      1485  GAGCCAAATCCAGTAAACAGGGCGACCGCTCTGTTAACTATACACTGTCTTGAGGAGCA 1544
Qy      1378  GTTGAGAGCAACAACTACTTGAATATAGCAACAGAACTGCTTGCCACATGGGGCTTG 1437
Db      1545  GTTGAGAGCAACAACTACTTGAATATAGCAACAGAACTGCTTGCCACATGGGGCTTG 1604
Qy      1438  GCACTTGGGAGCAAGGGAGGGGCTTGACAGCACCCCAACAGTAGGTTGCAAGAAAGC 1497
Db      1605  GCACTTGGGAGCAAGGGAGGGGCTTGACAGCACCCCAACAGTAGGTTGCAAGAAAGC 1664
Qy      1498  CCTAAGATCTTGAACCTTGAGAGCAGGCGCAAGGGTTGGTATATCATAGCGGAAATTA 1557
Db      1665  CCTAAGATCTTGAACCTTGAGAGCAGGCGCAAGGGTTGGTATATCATAGCGGAAATTA 1724

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RESULT 5
US-09-345-473E-7
/ Sequence 7, Application US/09345473E
/ Patent No. 6558903
/ GENERAL INFORMATION:
/ APPLICANT: Hodges, Martin
/ TITLE OF INVENTION: No. 6558903el Kinases and Uses Thereof
/ FILE REFERENCE: 35800/183781
/ CURRENT FILING DATE: 1999-06-30
/ NUMBER OF SEQ ID NOS: 62
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 7
/ LENGTH: 1697
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (2)...(1492)
US-09-345-473E-7

```

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Query Match      95.5%; Score 1487; DB 4; Length 1697;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1490; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy      63  GAGAAACCGAGAGCTGTGGGCAAAAGAGGGTTCCGACACAGTTCGGGGCGCAACATAG 122
Db      1  GAGAAACCGAGAGCTGTGGGCAAAAGCGGGTTCCGACACAGTTCGGGGCGCAACATAG 60
Qy      123  GAAAGTGGGGCTAGATGTGGCGGTCAAGATCGTAACTGAAAGGAGATATCCAGGGAGGT 182
Db      61  GAAAGTGGGGCTAGATGTGGCGGTCAAGATCGTAACTGAAAGGAGATATCCAGGGAGGT 120
Qy      183  CAAGGCGATGCAAGTCTGATTAACGAATTCGTGTTGCGCTTAAGAGGGGTTATCGAGAA 242
Db      121  CAAGGCGATGCAAGTCTGATTAACGAATTCGTGTTGCGCGCTTAAGAGGGGTTATCGAGAA 180
Qy      243  GGTGAATCTGGAGCAAGATCCAGAGCGGCTCTGTGACTAAATTCATGAGAAAGCGCTTC 302
Db      181  GGTGAATCTGGAGCAAGATCCAGAGCGGCTCTGTGACTAAATTCATGAGAAAGCGCTTC 240
Qy      303  CCGTGGGGGCTGTGCAATGCCAGTCCCTGGCGCTGCGCTCTTGGCGGCTGTGCT 362
Db      241  CCGTGGGGGCTGTGCAATGCCAGTCCCTGGCGCTGCGCTCTTGGCGGCTGTGCT 300
Qy      363  GAAAGAGTGTGCTTGGAGATGTTTAACTGCAAGCAAGAAACCGGAGTCTCTGACCG 422
Db      301  GAAAGAGTGTGCTTGGAGATGTTTAACTGCAAGCAAGAAACCGGAGTCTCTGACCG 360

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Qy      423  GGAACCTCAAGCCATCCAGCTCTGCGGAGCCAGAGCTGCACTGCAAGCTGGACATTT 482
Db      361  GGAACCTCAAGCCATCCAGCTCTGCGGAGCCAGAGCTGCACTGCAAGCTGGACATTT 420
Qy      483  TGGCTGTCCATTTCAAGGAGGCTCAGAGTCAAGGACAGGGATCCGGGAGGCAAGGG 542
Db      421  TGGCTGTCCATTTCAAGGAGGCTCAGAGTCAAGGACAGGGATCCGGGAGGCAAGGG 480
Qy      543  CACCTGTGGCTACTTGGCCCCCAAGACTGTTTGTAACTTAAACCGGAAGCTTCCACAG 602
Db      481  CACCTGTGGCTACTTGGCCCCCAAGACTGTTTGTAACTTAAACCGGAAGCTTCCACAG 540
Qy      603  CAGTGAAGTCTACAGCTTGGGATCCCTAATGTGGGAGGCTTGCTGGAAGAAATTTGA 662
Db      541  CAGTGAAGTCTACAGCTTGGGATCCCTAATGTGGGAGGCTTGCTGGAAGAAATTTGA 600
Qy      663  GTTGCAACCGAACCATCACTGTGTACGAACAGAGTGTCAACAGGACAGACCGGCTTC 722
Db      601  GTTGCAACCGAACCATCACTGTGTACGAACAGAGTGTCAACAGGACAGACCGGCTTC 660
Qy      723  ATTGCTGAGCTGCCCCCAAGCGGCTGAGACTCCCGCTTAAGAAAGACTGAAGAGCT 782
Db      661  ATTGCTGAGCTGCCCCCAAGCGGCTGAGACTCCCGCTTAAGAAAGACTGAAGAGCT 720
Qy      783  AATGACGCTCTGCTGAGAGTGAAGCCCAAGAGCAAGCTCTCTCAAGAAATGCTTACC 842
Db      721  AATGACGCTCTGCTGAGAGTGAAGCCCAAGAGCAAGCTCTCTCAAGAAATGCTTACC 780
Qy      843  AAAAATGATGAAGCTTTCAGATGGTGAGAGCAATATGAATGTGCTGTCTCCACGCT 902
Db      781  AAAAATGATGAAGCTTTCAGATGGTGAGAGCAATATGAATGTGCTGTCTCCACGCT 840
Qy      903  AAAGATTTCTGTCTCAGCTCAAGAGCAGCAATAGAGATTTTCTATCCAGAGTCAAG 962
Db      841  AAAGATTTCTGTCTCAGCTCAAGAGCAGCAATAGAGATTTTCTATCCAGAGTCAAG 900
Qy      963  CCAAGAGGAGCAAGAAATGAGATGGCTTTAGAGAAACCATAGAAACCAACACTCTGTAA 1022
Db      901  CCAAGAGGAGCAAGAAATGAGATGGCTTTAGAGAAACCATAGAAACCAACACTCTGTAA 960
Qy      1023  TGATGTCATGTGTTTCTGAGTGTGCTAAACAACTGAATCTAGAGAGCTCTCCAGCTGT 1082
Db      961  TGATGTCATGTGTTTCTGAGTGTGCTAAACAACTGAATCTAGAGAGCTCTCCAGCTGT 1020
Qy      1083  TCTTAAATAATGCCGAGCTTTACCAAGAGAGCAGGGGCAACAAGAGCAGGTTCCACA 1142
Db      1021  TCTTAAATAATGCCGAGCTTTACCAAGAGAGCAGGGGCAACAAGAGCAGGTTCCACA 1080
Qy      1143  AGCTGTGACAGAGGACACATCTTCAGATTGATGGCCCAACCTCCCAAGACTCCAGAGAC 1202
Db      1081  AGCTGTGACAGAGGACACATCTTCAGATTGATGGCCCAACCTCCCAAGACTCCAGAGAC 1140
Qy      1203  CTCAACTTTCAGAAAACAGATGCCAGCCCTCACTCAACTGGAACACCAAGTCTTGAGAC 1262
Db      1141  CTCAACTTTCAGAAAACAGATGCCAGCCCTCACTCAACTGGAACACCAAGTCTTGAGAC 1200
Qy      1263  CCGAGGGAATCAGGGGGCTGAGAGCAAGGCAATGAATCTGTCTTGAGAGACCCCGAGGC 1322
Db      1201  CCGAGGGAATCAGGGGGCTGAGAGCAAGGCAATGAATCTGTCTTGAGAGACCCCGAGGC 1260
Qy      1323  AATATCAGTAAACAGGGCGACCGCTGTTAACTATTAACAATCTCTCTGGGGTTCAGTTGG 1382
Db      1261  AATATCAGTAAACAGGGCGACCGCTGTTAACTATTAACAATCTCTCTGGGGTTCAGTTGG 1320
Qy      1383  AGACAACAACCTACTTGAATATGATCAAGCAAGCACTGCTTGCCCACTAGGGGCTTGACCC 1442
Db      1321  AGACAACAACCTACTTGAATATGATCAAGCAAGCACTGCTTGCCCACTAGGGGCTTGACCC 1380
Qy      1443  TTGCGGCAAGGGGAGGGGCTTGACAGACCCCCCAACAGTAGGTTGCAAGAAAGGCTTAA 1502
Db      1381  TTGCGGCAAGGGGAGGGGCTTGACAGACCCCCCAACAGTAGGTTGCAAGAAAGGCTTAA 1440
Qy      1503  AGATCTGAAGCCTGAGAGCAGGCAAGGTTGGTATATCATATAGCGGAAATTA 1557

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Db 1441 AGATCTGAAGCTGGAGAGGCGGAGGCTTGGTATATCATATACGGGAAATATA 1495

## RESULT 6

US-09-023-655-558  
Sequence 558, Application US/09023655

Patent No. 6607879  
GENERAL INFORMATION:  
APPLICANT: Cocks, Benjamin G.  
APPLICANT: Susan G. Stuart  
APPLICANT: Jeffrey J. Seilhamer  
TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE  
TITLE OF INVENTION: EXPRESSION  
NUMBER OF SEQUENCES: 1508  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
STREET: 3174 PORTER DRIVE  
CITY: PALO ALTO  
STATE: CALIFORNIA  
COUNTRY: USA  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/023.655  
FILING DATE: HERewith  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Zeller, Karen J.  
REGISTRATION NUMBER: 37,071  
REFERENCE/DOCKET NUMBER: PA-0001 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (650) 845-0555  
TELEFAX: (650) 845-4166  
INFORMATION FOR SEQ ID NO: 558:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 509 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
LIBRARY: COLSUCT01  
CLONE: 2349047  
US-09-023-655-558

Query Match 21.5%; Score 334.2; DB 4; Length 509;  
Best Local Similarity 94.8%; Pred. No. 2.6e-82;  
Matches 345; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

QY 433 CCATCCAAAGCTCTGCGGAGCCAGAGCTGCAGTCAGTCGCAAGTTTGGCTGTCC 492  
DB 146 CTTGACACCTTCACAGCTGATGTCGCGTCAAGTTATGCTGCGAGATTTTGGCTGTCC 205  
QY 493 ACATTTCCAGGAGGCTCAGACAGTCAGGAGAGGCTCCGGGAGCCAGCGGCGCCTGGGCG 552  
DB 206 ACATTTCCAGGAGGCTCAGACAGTCAGGAGAGGCTTCGCGGAGCCAGCGGCGCCTGGGCG 265  
QY 553 TACTTGGCCCGGAGAGCTGTTTGTAAACGTAACCGGAGGCTCCACAGCCAGTACGTC 612  
DB 266 TACTTGGCCCGGAGAGCTGTTTGTAAACGTAACCGGAGGCTCCACAGCCAGTACGTC 325  
QY 613 TACAGCTTGGGAGTCTTAATGTGTGGGAGTGTCTTGGAAGAGAAAGTTGAGTTGCCAAC 672  
DB 326 TACAGCTTGGGAGTCTTAATGTGTGGGAGTGTCTTGGAAGAGAAAGTTGAGTTGCCAAC 385

QY 673 GAACATCACTCGTGTAGAGAGAGTGTGCAAGAGGAGGAGCCGCGCTTATTTGGCTGAG 732  
DB 386 GAACATCACTCGTGTAGAGAGAGTGTGCAAGAGGAGGAGCCGCGCTTATTTGGCTGAG 445

QY 733 CTGCCCCAAGCGGGGCTGAGACTCCCGGCTTGAAGAGCTGAAGAGCTTAATGCACTC 792  
DB 446 CTGCCCCAAGCGGGGCTGAGACTCCCGGCTTGAAGAGAGTGAAGAGTCTTAATGCACTC 505

QY 793 TGCT 796  
DB 506 TGCT 509

## RESULT 7

US-09-023-655-826  
Sequence 826, Application US/09023655

Patent No. 6607879  
GENERAL INFORMATION:  
APPLICANT: Cocks, Benjamin G.  
APPLICANT: Susan G. Stuart  
APPLICANT: Jeffrey J. Seilhamer  
TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE  
TITLE OF INVENTION: EXPRESSION  
NUMBER OF SEQUENCES: 1508  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
STREET: 3174 PORTER DRIVE  
CITY: PALO ALTO  
STATE: CALIFORNIA  
COUNTRY: USA  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/023.655  
FILING DATE: HERewith  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Zeller, Karen J.  
REGISTRATION NUMBER: 37,071  
REFERENCE/DOCKET NUMBER: PA-0001 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (650) 845-0555  
TELEFAX: (650) 845-4166  
INFORMATION FOR SEQ ID NO: 826:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 308 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
LIBRARY: BRATUT03  
CLONE: 866123  
US-09-023-655-826

Query Match 19.0%; Score 295.4; DB 4; Length 308;  
Best Local Similarity 98.0%; Pred. No. 9.8e-72;  
Matches 299; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 249 CTGGACCAAGATCCCAAGCGGCTCTGTGATTAATTCAATGAGAAAGGCTCCCTGTC 308  
DB 4 CTGACGCAAGATCCCAAGCGGCTCTGTGATTAATTCAATGAGAAAGGCTCCCTGTC 63  
QY 309 GGGGCTGTGAGTCCAGTCCAGTCCCTGCGGCTGCGGCTCTCTTTGCGCGCTGCTGAAGA 368  
DB 64 GGGGCTGTGAGTCCAGTCCAGTCCCTGCGGCTGCGGCTCTCTTTGCGCGCTGCTGAAGA 123

QY 369 AGTGTGCTTTGGGATTTTACTGTGACGACGAAACCCGGTCTCTGTGACCGGGACCT 428  
DB 124 ATGTGGCTTGGGATTTTACTGTGACGACGAAACCCGGTCTCTGTGACCGGGACCT 183  
QY 429 CAAGCATTCAGGCTGCTGCGGACCCAGAGCTGACGCTGAGCTGGAGATTTGGGCT 488  
DB 184 CAAGCATTCAGGCTGCTGCGGACCCAGAGCTGACGCTGAGCTGGAGATTTGGGCT 243  
QY 489 GTCCACATTCAGGAGGCTCACAGTCAGGAGCAGGGTCCGGGAGCCAGGGGACCT 548  
DB 244 GTCCACATTCAGGAGGCTCACAGTCAGGAGCAGGGTCCGGGAGCCAGGGGACCT 303  
QY 549 GGGCT 553  
DB 304 GGGTT 308

## RESULT 8

US-09-016-434-980  
; Sequence 980, Application US/09016434  
; Patent No. 6500938  
; GENERAL INFORMATION:  
; APPLICANT: Janice Au-Young  
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING  
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION  
; NUMBER OF SEQUENCES: 1490  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
; STREET: 3174 PORTER DRIVE  
; CITY: PALO ALTO  
; STATE: CALIFORNIA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/016,434  
; FILING DATE: HERewith  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Zeller, Karen J.  
; REGISTRATION NUMBER: 37,071  
; REFERENCE/DOCKET NUMBER: PA-0002 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (650) 855-0555  
; TELEFAX: (650) 845-4166  
; INFORMATION FOR SEQ ID NO: 980:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 264 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: BRAITUT03  
; CLONE: 866123  
US-09-016-434-980

Query Match 16.6%; Score 259.2; DB 4; Length 264;  
Best Local Similarity 98.9%; Pred. No. 8.2e-62;  
Matches 261; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 290 TGGAGAACGGCTCTCTGTGCGGGCTGTGACGTCAGTCCAGTCCGAGCCCTGCGGCTGCGGCTCC 349  
DB 1 TGGAGAACGGCTCTCTGTGCGGGCTGTGACGTCAGTCCAGTCCGAGTCCCTCGGCTTGGCCCTCC 60

QY 350 TTGGCCGCTGTGTAAGAGAGTGTGTGGATTTTAACTGTGACGACGAAACCCGG 409  
DB 61 TTGGCCGCTGTGTAAGAGAGTGTGTGGATTTTAACTGTGACGACGAAACCCGG 120  
QY 410 TGTCTGTGACCGGAGACCTCAAGCATTCAGGCTGCTGCGGACCCAGAGCTGACGTGA 469  
DB 121 TGTCTGTGACCGGAGACCTCAAGCATTCAGGCTGCTGCTGAGACCCAGAGCTGACGTGA 180  
QY 470 AGCTGGCAGATTTTGGCTGTCCACATTTACAGGAGGCTCACAGTCAGGAGCAGAGGTCGG 529  
DB 181 AGCTGGCAGATTTTGGCTGTCCACATTTACAGGAGGCTCACAGTCAGGAGCAGAGGTCGG 240  
QY 530 GGGAGCCAGGGGACCCCTGGGCT 553  
DB 241 GGGAGCCAGGGGACCCCTGGGTT 264

## RESULT 9

US-09-781-882-3  
; Sequence 3, Application US/09781882  
; Patent No. 6630335  
; GENERAL INFORMATION:  
; APPLICANT: Kapeller-Libermann, Rosana  
; TITLE OF INVENTION: 14171 Protein Kinase, a No. 6630335e1 Human  
; FILE REFERENCE: 035800-209014(5800-6  
; CURRENT FILING DATE: 2001-02-12  
; PRIOR APPLICATION NUMBER: U.S. 60/182,096  
; PRIOR FILING DATE: 2000-02-11  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 3  
; LENGTH: 2355  
; TYPE: DNA  
; ORGANISM: H. sapiens  
US-09-781-882-3

Query Match 6.9%; Score 107.4; DB 4; Length 2355;  
Best Local Similarity 49.1%; Pred. No. 1.2e-19;  
Matches 406; Conservative 0; Mismatches 406; Indels 15; Gaps 4;  
QY 72 GGAAGCTGTGCGCAAGAGCGGTTGGCACAGTTCGCGGCGCAATAGAGAGTGGG 131  
DB 75 GGAAGAGTGGGCTGCGGCGGCTTGGCGAGGTGTACAGGTGCGCATGTCCACTGAA 134  
QY 132 CTACGATGCGGCGTCAAGATC---GTAACTCGAAGCGGATATCCAGGAGGTCAAGG 188  
DB 135 GACCTGGCTGGCATTAAGTGTCTCGCCAGCTGTGACGTGACAGCAGGAGCGCATGGA 194  
QY 189 CATGGCAGTCTGATTAAGAAATTCGATGTGGCGCTAGAGAGGGATTATGAGAGGTGA 248  
DB 195 GCTTTTGAAGAAAGCAAGAAATGAGATGAGCCAAAGTTTCCTATCATCTGCTGTGA 254  
QY 249 CTGGGACCAAGATCCCAAGCCGCTGTGTGACTAAATTCATGAGAGACGCTCTCTGTC 308  
DB 255 TGGCATCTGCCCGCAACTGTGCGCTGTGTATGAGTACATGAGAGACGCGCTCTCTGGA 314  
QY 309 GGGGCTGTGAGTCCCAAGTGTGCTGCGGCGGCTGCGGCGCTTGGCGGCTGCTGTAAGA 368  
DB 315 AAGCTGTGCTTGGAG---CAATTCATGAGGATCTCCGCTTCCGAATCATCCAG 371  
QY 369 AGTGTGCTTTGGGATTTTAACTGTGACGACGAAACCCGGTCTCTGTGACCGGGACCT 428  
DB 372 GAGGCGGTGGGCAATTAATCTGTGACATGATGAGCCCGCATCTCTGTGACCTGGACCT 431  
QY 429 CAAGCATTCAGTCTGCGGACCCAGAGCTGACGCTGAGCTGAGAGATTTGGGCT 488  
DB 432 CAAGCCCGGAAATCTGCTGTGATGAGCCACATCACGTCAGAGATTTGATTTGGTCT 491  
QY 489 GTCCACATTCAGGAGGCTCACAGTC---AGGAGAGGTCGCGGAGGACAGGGGAGC 545



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Db      492  GGCACAGTCAACGGGCTGTCCACTCGCATGACCTCAGCATGATGCGCTGTTGGAC 551
Qy      546  CTTGGCTACTTGGGCCCCAGAACTGTTGTTAAGCTAAACGGGAAGGCTCCACAGCAG 605
Db      552  AATGCGCTACCTCCCTCCAGAGCGCATGAGGAGAAAGCGGCTCTTGACACCAAGCA 611
Qy      606  TGACGTCTACAGCTTCGGGATCTTAATGTGGCAGTGTCTTGAGAAAGAAAGTTGAGTT 665
Db      612  CGATGTATACAGCTTTGGGATGTGATCTGCGGCGCTGCT-----CACACGAAAGAAC 665
Qy      666  GCCAACCGAACCATCACTGTGTATGAGAACAGTGTGCAACAGGCAAAACCGGCTTCATT 725
Db      666  GTTTCAGATAGAGAAAGAACATCTTCATCATATGATGTAAGGTGTGAAGGCGCCACCGCC 725
Qy      726  GCGTGAAGTGTCCCAAGCGCGGCTGAGATCCCGGCTTAAGAGACCTGAAGAGCTAAT 785
Db      726  CGAGTGCAGCGGCTGTGTGCAAGCGCGGCGCGCTGACAGCAACCTGATATCGCTCAT 785
Qy      786  GCAGCTCTGTGAGACATGAGCCCAAGAGACACCTCTTCCAGAAATGCTTACCAA 845
Db      786  GCAGCGGTGTGTGAGAGGAGATCCCGAGTTAGGCCACCTTCCAGAAATTAATCTTGA 845
Qy      846  AACTGATGAAGTCTTCCAGATGTGTGAGAAACATATGAAATGCTGCTG 892
Db      846  AACCGAGACCTGTGTGAAAAGCTGATGACGAAAGTAAAGAACTG 892

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## RESULT 10

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US-09-781-882-1
; Sequence 1, Application US/09781882
; Patent No. 6630335
; GENERAL INFORMATION:
; APPLICANT: Kapeller-Libermann, Rosana
; TITLE OF INVENTION: 14171 Protein Kinase, a No. 6630335el Human
; FILE REFERENCE: 035800-209014(5800-6
; CURRENT APPLICATION NUMBER: US/09/781,882
; PRIOR FILING DATE: 2001-02-12
; PRIOR APPLICATION NUMBER: U.S. 60/182,096
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 3860
; TYPE: DNA
; ORGANISM: H. sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (17)...(2371)
; OTHER INFORMATION:
; NAME/KEY: misc_feature
; LOCATION: (1)...(3860)
; OTHER INFORMATION: n = A,T,C or G
US-09-781-882-1

```

```

Query Match      6.9%; Score 107.4; DB 4; Length 3860;
Best Local Similarity 49.1%; Pred. No. 1.5e-19;
Matches 406; Conservative 0; Mismatches 406; Indels 15; Gaps 4;

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Qy      72  GGAGCTCGTCGCAAAAGCGGGTTCGCAACAGTGTTCGGGGGCAACATAGGAATGGGG 131
Db      91  GGAGAAAGTGGGCTCGGGGCGCTTCGGGAGGTGTAAAGGTGCCATGTCACTGGAA 150
Qy      132  CTACGATGTGGCGGTCAAGATC---GTAACTCGAAGCGCATATCCAGGAGGTCAAGGC 188
Db      151  GACCTGGCTGCGCATCAAGTGTCCGCCAGCTGACGTGACGACAGGAGCGCATGA 210
Qy      189  CATGCAAGTGTGAATACGAATGTGTGTGCGCTTAAAGGGGTTATCGAAGAGTGA 248
Db      211  GCTTTTGAAGAGCGCAAGAGATGAGATGAGCTTTCCTACATCTGCTGTGTA 270
Qy      249  CTGGACCAAGATCCCAAGCCGCTGTGTGACTAAATTCATGAGAAACGGCTCCCTGTC 308

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Db      271  TGCGATCTGCGCGCAACCTGTGTGAGCTGTGATGAGTAAATGAGACGGGCTCCCTGGA 330
Qy      309  GGGGCTGTGCAATCCAGTGCCTCGGCTGTGCGGCTCTTGTGCGGCTGTGAAGA 368
Db      331  AAAGTGTGTGCTTCTTGAG--CCATTGCAATGGGATCTCGGTTCCGAATCATCAAGA 387
Qy      369  AGTGTCTTGGGATGTTTTAACTGACGACCAAGAACCGGTGTCTGTGACCGGAACT 428
Db      388  GACGCGGTGGGATGAATCTTCTGCACTGATGAGCCCGGCACTCTGCACTGGAACCT 447
Qy      429  CAAGCATCCAAAGTCTTCCGAGCCAGAGCTGACATGAACTGAGTGGCAATTTGGCCT 488
Db      448  CAAGCCCGCAACATCTGTGATGACCACTACAGTCAAGATTTGATTTGTGCT 507
Qy      489  GTCCACATTTGAGGAGGCTCACAGTC---AGGACAGAGGTCCGGGAGCCAGGCGCAC 545
Db      508  GGCACAGTCAACGGGCTGTGCTCCATGATGACCTCAGATGAGATGAGCTGTTGGCAC 567
Qy      546  CTTGGGCTACTTGGCCCCAGAACTGTTGTTAAAGTAAACCGAAGGCTTCCACAGCAG 605
Db      568  AATGCGCTACTCTCCCTCCAGAGCGCATCAGGAGAAAGCGGCTTTCGACACCAAGA 627
Qy      606  TGACGTCTACAGCTTCCGGAATCTTAATGTGGGCACTGCTTGTGGAAGAAGTTGATT 665
Db      628  CGATGTATACAGCTTTGTGATGTGATCTGTGGGGGTGT-----CACACGAAAGAAC 681
Qy      666  GCCAACGGAACCATCACTCGTGTATGAAAGCATGTGCAACAGGAGAACCGGCTTCATT 725
Db      682  GTTTCAGATGAGAAAGACATCTGCAATATATGTAGAGGTGTGAAGGCGCACCGCC 741
Qy      726  GCGTGAAGTGTCCCAAGCGGCGCTGAGACTCCCGGCTTAAGAGACTGAAGAGCTAAT 785
Db      742  CGAGTGCAGCGGCTGTGTGCAAGCGCGGCGGCTGACGACCTGATATCCCTCAT 801
Qy      786  GCAGCTCTGTGAGACATGAGCCCAAGAGACACCTCTTCCAGAAATGCTTACCAA 845
Db      802  GCACCGGTGTGAGAGGAGATCCGAGATTAGGCCCACTTCCAGAAATTAATCTTGA 861
Qy      846  AACTGATGAAGTCTTCCAGATGTGTGAGAAACATATGAAATGCTGCTG 892
Db      862  AACCGAGACCTGTGTGAAAAGCTGATGACGAAAGTAAAGAACTG 908

```

## RESULT 11

```

US-09-312-283C-403
; Sequence 403, Application US/09312283C
; Patent No. 6573095
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Ornst, Rene
; APPLICANT: Murison, James G.
; TITLE OF INVENTION: Compositions isolated from skin cells
; FILE REFERENCE: 11000.1011c2
; CURRENT APPLICATION NUMBER: US/09/312,283C
; CURRENT FILING DATE: 1999-05-14
; NUMBER OF SEQ ID NOS: 425
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 403
; LENGTH: 1774
; TYPE: DNA
; ORGANISM: Mouse
US-09-312-283C-403

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Query Match      6.2%; Score 96.8; DB 4; Length 1774;
Best Local Similarity 51.9%; Pred. No. 8.7e-17;
Matches 320; Conservative 0; Mismatches 282; Indels 14; Gaps 4;

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Qy      275  TGTGACTAAATTAATGAGAGACGGCTCTGTGTGCGGGCTGCTGCAATGCCAGTCCCTC 334

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Db 286 TGGTCAATGAGTACATGAGACAGAGCTCCCTGAGAAAGTGTGGCCTCAGAG---CAAT 342  
Qy 335 GGGCTTGGCCGCTCTTTTGGCCGCTGCTGTAAGAAAGTGTGTGGATTTTACTGTC 394  
Db 343 TGGCTTGGGAGCTGCGCTTTTGGCATGATGACAGAGAGCGCGGAGCATTAACCTTCG 402  
Qy 395 AGACACAGAAACCGGCTGCTCTGACCGGGAGCTCAAGCATCAAGTCTGCGGAGC 454  
Db 403 ATTGCAATGTCTCCGACCTGCTGACCTTAAGCTGAAGCCAGGAAATCTCTGGATG 462  
Qy 455 CAGAGCTGACATGTAAGTGTGAGATTTTGGCTGTCCATTTCAAGAGGCTCAAGT 514  
Db 463 CCACTACATGATGTAAGATTTTGAATTTGGGCTGGCCAAAGTCAATGGATGCTCCAGT 522  
Qy 515 C---AGGAGACAGGCTCCGGGAGCCAGGGGGCACTCTGGGCTACTTGGCCCAAGTGT 571  
Db 523 CTCATACCTCAGACATGATGATGGCTTTGGTGAATGCTTACTCTCCCTCCAGAGCGAA 582  
Qy 572 TTGTTAAGCTAAACCGGAAAGGCTCCAGAGCCAGTACGCTTACAGCTTCCGGATCCTTA 631  
Db 583 TTGCTAGAAAGAGCCGCTTTTGAACACCAACATGATGATACAGCTTCCGCAATGTGA 642  
Qy 632 TGTGGCAGTGTCTTGC-TGGAGAGAAAGTTGATGCTCCAAACCGAACATCACTGTATC 690  
Db 643 TCTGGGCTGTGCTTTACACAGAAAGAGCCATTTGCAATGAAAGAACATCTACATCA 702  
Qy 691 GAAGCAGTGTGCAACAGGAGAAACCGGCTTCAATTGGCTGAGCTGCCCAAGCGGCT 750  
Db 703 TGAATGAAGTGTGAAGGGGCAACCGCC-----AGAGCTGCCACCTCTGCAACACC 755  
Qy 751 GAGACTCCCGGCTTGAAGAGCTGAAGAGCTAATGAGCTGTCTGAGAGCTGAGCC 810  
Db 756 CCGCCCGCTGCTGCTGCTGACCTGATAGGATTAATGACAGTGTGCAAGACCA 815  
Qy 811 AAGACAGACCCCTCTTCCAGAAATGCTTACCAAAAAGTGAAGTCTTCCAGATGATG 870  
Db 816 CAGGTCCGGCCCACTTCCAGAAATTAATCTGAAACAGAACACCTTTGTGAGAAAGCT 875  
Qy 871 GAGAACATATGATG 886  
Db 876 GATGAGAGAGTGAAG 891

## RESULT 12

US-09-509-802-1  
; Sequence 1, Application US/09509802  
; Patent No. 6489130  
; GENERAL INFORMATION:  
; APPLICANT: Immunex Corp.  
; APPLICANT: Bird, Timothy  
; TITLE OF INVENTION: DEATH ASSOCIATED KINASE CONTAINING ANKYRIN REPEATS (DAKAR)  
; FILE REFERENCE: 2889-US  
; CURRENT APPLICATION NUMBER: US/09/509,802  
; CURRENT FILING DATE: 2000-06-02  
; NUMBER OF SEQ ID NOS: 5  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 1  
; LENGTH: 2370  
; TYPE: DNA  
; ORGANISM: Mus sp.  
US-09-509-802-1

Query Match 6.2%; Score 96.8; DB 4; Length 2370;  
Best Local Similarity 51.9%; Pred. No. 9.9e-17;  
Matches 320; Conservative 0; Mismatches 282; Indels 14; Gaps 4;  
Qy 275 TGGTCACTAAATTCATGAGAAAGCGCTCCTGTCCGGGCTGCTGCACTCCAGTCCCTC 334  
Db 290 TGGTCACTGAGTACATGAGAAAGCGCTCCTGTGAGAAAGCTGCGCTCAGAG---CAAT 346  
Qy 335 GGGCTTGGCCGCTCTTTTGGCCGCTGCTGTAAGAAAGTGTGTGGATTTTACTGTC 394

Db 347 TGGCTTGGGAGCTTGGCTTTTCCATGTGTCACAGAGACAGCCGCTGGCATGAATCTTCTGC 406  
Qy 395 AGACACAGAAACCGGCTGCTCTGCAACCGGAGCTCAAGCATCCAAAGTCTCCGCGAGC 454  
Db 407 ATTGCAATGTCTCCGACCTGCTGACCTTAAGCTGAAGCCAGGAAATCTCTGGATG 466  
Qy 455 CAGAGCTGACATGTAAGATTTTGGCTGTCCATTTCAAGAGGCTCAAGT 514  
Db 467 CCACTACATGATGTAAGATTTTGAATTTGGGCTGGCCAAAGTCAATGGATGCTCCAGT 526  
Qy 515 C---AGGAGACAGGCTCCGGGAGCCAGGGGGCACTCTGGGCTACTTGGCCCAAGTGT 571  
Db 527 CTCATACCTCAGACATGATGATGGCTTTGTAATTCCTTAACCTCCCTCCAGAGCGAA 586  
Qy 572 TTGTTAAGCTAAACCGGAAAGGCTCCAGAGCCAGTGAAGTCTTACAGCTTCCGGATCCTTA 631  
Db 587 TTGCTAGAAAGAGCCGCTTTTGAACACCAACATGATGATTAACAGCTTCCGCAATGTGA 646  
Qy 632 TGTGGCAGTGTCTTGC-TGGAGAGAAAGTTGATGCTCCAAACCGAACATCACTGTGTAC 690  
Db 647 TCTGGGCTGTGCTTTACACAGAAAGAGCCATTTGCAATGAAAGAACATCTACATCA 706  
Qy 691 GAAGCAGTGTGCAACAGGAGAAACCGGCTTCAATGCTGAGCTGCGCCCAAGCGGCT 750  
Db 707 TGAATGAAGTGTGAAGGGGCAACCGCC-----AGAGCTGCCACCTCTGCAACACC 759  
Qy 751 GAGACTCCCGGCTTGAAGAGTGAAGAGCTTAATGCACTGCTGTGAGCACTGAGCC 810  
Db 760 CCGCCCGCTGCTGCTGCTGACCTGATAGGCTTCAATGCAACCGGCTGCGGATGCAAGC 819  
Qy 811 AAGACAGACCCCTCTTCCAGAAATGCTTACCAAAAAGTGAAGTCTTCCAGATGATG 870  
Db 820 CAGGTCCGGCCCACTTCCAGAAATTAATCTGAAACAGAAAGACCTTTGTGAGAAAGCT 879  
Qy 871 GAGAACATATGATG 886  
Db 880 GATGAGAGAGTGAAG 895

## RESULT 13

US-09-188-930-257  
; Sequence 257, Application US/09188930A  
; Patent No. 6150502  
; GENERAL INFORMATION:  
; APPLICANT: Watson, James D.  
; APPLICANT: Strachan, Lorna  
; APPLICANT: Sleeman, Matthew  
; APPLICANT: Omust, Rene  
; TITLE OF INVENTION: Compositions Isolated From Skin Cells  
; FILE REFERENCE: 11000.1011c1  
; CURRENT APPLICATION NUMBER: US/09/188,930A  
; CURRENT FILING DATE: 1998-11-09  
; NUMBER OF SEQ ID NOS: 348  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 257  
; LENGTH: 3516  
; TYPE: DNA  
; ORGANISM: Mouse  
US-09-188-930-257

Query Match 6.2%; Score 96.8; DB 3; Length 3516;  
Best Local Similarity 51.9%; Pred. No. 1.2e-16;  
Matches 320; Conservative 0; Mismatches 282; Indels 14; Gaps 4;  
Qy 275 TGGTCACTAAATTCATGAGAAAGCGCTCCTGTCCGGGCTGCTGCACTCCAGTCCCTC 334  
Db 284 TGGTCACTGAGTACATGAGAAAGCGCTCCTGTGAGAAAGTGTGCTGCGCTCAGAG---CAAT 340  
Qy 335 GGGCTTGGCCGCTCTTTTGGCCGCTGCTGTAAGAAAGTGTGTGGATTTTACTGTC 394  
Db 341 TGGCTTGGGAGCTTGGCTTTTCCATGTGTCACAGAGACAGCCGCTGGCATGAATCTTCTGC 400

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QY 395 ACGACCAAGACCCGGTGTCTCTGCAACGGGACCTCAAGCATCCAAACGTCCTGCGGACC 454
DB 401 ATTGATGTCCTCCGACCTGCTGACCTAGACTTAAGACGCAACATCTGCTGAGATG 460
QY 455 CAGAGCTGCACGTCAAGCTGAGCAGATTTTGGCTGTCCACATTTAGAGGAGGCTCACAGT 514
DB 461 CCCACTACCATGTCAAGATTTTCTGACTTTGGGCTGGCCAGAGTCAGATGGCATGTCCACT 520
QY 515 C---AGGACAGGGTCCGGGAGCCAGCGGGGACCCCTGGGCTACTTGGCCCCCAACTGT 571
DB 521 CTCATGACCTCAGCATGATGAGCTGTTGGTACATGCTTACCTCCCTCCAGAGCGAA 580
QY 572 TTGTTAAGCTTAACCGGAAGGCTCCACAGCAGTGAAGTCTTACAGCTTTGGGATCTTAA 631
DB 581 TTCTGTAAGAAAGCCGCTGTTTGAACCAAAACATGATGATATACGCTTGCCATTTGGA 640
QY 632 TGTGGGCAGTGCTTGC-TGGAAGAAAGTTGAGTTGCCAACCCAAACCATCACTGCTGTAC 690
DB 641 TCTGGGGTGTGCTTACACAGAAAGCCATTTGCAGATGAATAAGAAACATCTTACACATCA 700
QY 691 GAAGCAGTGTGCACAGCAGAACCGGCTTCACTTGGCTGAGCTGCCCCCAAGCCGGGCT 750
DB 701 TGATGAAAGTGTAAAGGGCCACCGCC-----AGAGCTGCCAACCCATCTGCAGACCC 753
QY 751 GAGACTCCCGGCTTGAAGAGACTGAAGAGCTAATGCAAGCTCTGCTGAGCAGTAGGCC 810
DB 754 CGGCGCGTGTCTGTGCGCAGCTGATAGGGCTCATGCAACGGTGTGGAGTCAACACCA 813
QY 811 AAGCAGACCCCTCTTCCAGGAATGCCACCAAAACGTAGTAAGTCTTCCAGATGTGTG 870
DB 814 CAGGTGGGCGCCACCTTCCAAAGAAATTAACCTCTGAAGACGAAGACCTTTGTGAGAAGCT 873
QY 871 GGAACAATATGATG 886
DB 874 GATGAGAGGTGAAG 889
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RESULT 14
US-09-312-283C-257
; Sequence 257, Application US/09312283C
; Patent No. 6573095
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Onrust, Rene
; APPLICANT: Muriison, James G.
; APPLICANT: Kumble, Krishanand D.
; TITLE OF INVENTION: Compositions Isolated from Skin Cells
; FILE REFERENCE: 11000.1011c2
; CURRENT APPLICATION NUMBER: US/09/312,283C
; CURRENT FILING DATE: 1999-05-14
; NUMBER OF SEQ ID NOS: 425
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 257
; LENGTH: 3516
; TYPE: DNA
; ORGANISM: Mouse
US-09-312-283C-257
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```
Query Match 6.2%; Score 96.8; DB 4; Length 3516;
Best Local Similarity 51.9%; Pred. No. 1,2e-16;
Matches 320; Conservative 0; Mismatches 282; Indels 14; Gaps 4;
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```
QY 275 TGGTACTAATTAATTCAGAGAACGGCTCCCTGTCGGGGCTGCTGACAGTCCCGAGCCCTC 334
DB 284 TGGTACTGAGTACATGAGACAGAGGCTCCCTGAGAGAGCTGCTGAGG---CAAT 340
QY 335 GGGCCCTGGCCGCTCTTTCGCGCTGCTGAAGAAAGTGTGCTGGAGATGTTTACCTGC 394
DB 341 TGCCTTGGAGCCTGGGCTTTTGGATGTGCAAGAGACACCGGTGGGCATGAACCTTCTGC 400
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QY 395 ACGACCAAGACCCGGTGTCTCTGCAACGGGACCTCAAGCATCCAAACGTCCTGCGGACC 454
DB 401 ATTGATGTCCTCCGACCTGCTGACCTAGACTTAAGACGCAACATCTGCTGAGATG 460
QY 455 CAGAGCTGCACGTCAAGCTGAGCAGATTTTGGCTGTCCACATTTAGAGGAGGCTCACAGT 514
DB 461 CCCACTACCATGTCAAGATTTTCTGACTTTGGGCTGGCCAGAGTCAGATGGCATGTCCACT 520
QY 515 C---AGGACAGGGTCCGGGAGCCAGGGGACCCCTGGGCTACTTGGCCCCCAACTGT 571
DB 521 CTCATGACCTCAGCATGATGAGCTGTTGGTACATGCTTACCTCCCTCCAGAGCGAA 580
QY 572 TTGTTAAGCTTAACCGGAAGGCTCCACAGCAGTGAAGTCTTACAGCTTTGGGATCTTAA 631
DB 581 TTCTGTAAGAAAGCCGCTGTTTGAACCAAAACATGATGATATACGCTTGCCATTTGGA 640
QY 632 TGTGGGCAGTGCTTGC-TGGAAGAAAGTTGAGTTGCCAACCCAAACCATCACTGCTGTAC 690
DB 641 TCTGGGGTGTGCTTACACAGAAAGCCATTTGCAGATGAATAAGAAACATCTTACACATCA 700
QY 691 GAAGCAGTGTGCACAGCAGAACCGGCTTCACTTGGCTGAGCTGCCCCCAAGCCGGGCT 750
DB 701 TGATGAAAGTGTAAAGGGCCACCGCC-----AGAGCTGCCAACCCATCTGCAGACCC 753
QY 751 GAGACTCCCGGCTTGAAGAGACTGAAGAGCTAATGCAAGCTCTGCTGAGCAGTAGGCC 810
DB 754 CGGCGCGTGTCTGTGCGCAGCTGATAGGGCTCATGCAACGGTGTGGAGTCAACACCA 813
QY 811 AAGCAGACCCCTCTTCCAGGAATGCCACCAAAACGTAGTAAGTCTTCCAGATGTGTG 870
DB 814 CAGGTGGGCGCCACCTTCCAAAGAAATTAACCTCTGAAGACGAAGACCTTTGTGAGAAGCT 873
QY 871 GGAACAATATGATG 886
DB 874 GATGAGAGGTGAAG 889
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RESULT 15
US-09-188-930-66
; Sequence 66, Application US/09188930A
; Patent No. 6150502
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Onrust, Rene
; APPLICANT: Muriison, James Greg
; TITLE OF INVENTION: Compositions Isolated From Skin Cells
; FILE REFERENCE: 11000.1011c1
; CURRENT APPLICATION NUMBER: US/09/188,930A
; CURRENT FILING DATE: 1998-11-09
; NUMBER OF SEQ ID NOS: 348
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 66
; LENGTH: 1888
; TYPE: DNA
; ORGANISM: mouse
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1690)...(1690)
; NAME/KEY: unsure
; LOCATION: (1755)...(1755)
; NAME/KEY: unsure
; LOCATION: (1864)...(1864)
US-09-188-930-66
```

```
Query Match 5.1%; Score 79.6; DB 3; Length 1888;
Best Local Similarity 53.2%; Pred. No. 4.8e-12;
Matches 329; Conservative 0; Mismatches 274; Indels 15; Gaps 7;
```

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QY 275 TGGTACTAATTAATTCAGAGAACGGCTCCCTGTCGGGGCTGCTGACAGTCCCGAGCCCTC 334
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Db 284 TGGTCATGAGTACATGAGACAGGCTCCCTGGAGAACTGTGGCTCAGAG---CCAT 340  
QY 335 GGGCCCTGGCCGCTCTTTCGCGCTGTGAAAGAGTGTGCTTGGAGTGTTTTACCTGC 394  
Db 341 TGCCTTGGGACCTGCGCTTTCGATGTCGACAGACAGCCGTGGGATGAACTTCTTGC 400  
QY 395 ACAGACGAAACCGGCTGCTCTGACCCGGGACCTCAAGCATCCAGTCTGCTCCGGA-- 452  
Db 401 ATTGCATGTCTCCGCACTGTGCACCTAGACCTGAAGCCAGGAACTTGTGTGATG 460  
QY 453 CCCAGAGCTGACAGTCAAGCTGAC-AGATTTGGCTGTCCACATTTCAAGGAGGCTCAC 511  
Db 461 CCCACTACCAAAATGTGAAGTTCTTGAACCTTGGGCTGGCCAACTGCAATGCAATGCC 520  
QY 512 AGTC--AGGACAGGGTCCGGGAGCCAGGGGACCTTGGGCTACTTGGCCCAAGAC 568  
Db 521 ACTCTCATGACTCTCAGATGATGGCTGTGTGTACAAATGGGCTACTTCCCTCAGAGC 580  
QY 569 TGTGTGTTAAGTAACCGGAGGCTCCACAGCCAGTGAAGTCTACAGCTTGGGATCC 628  
Db 581 GAATTCGTGAGAGAGCCGCTTGTGACACCAACATGATGATACAGCTTGCATTTG 640  
QY 629 TAATGTGGCAGTGTCTGTGAGAGAGAGTGAAGTGGCCAAACCACTCATCTGTGT 688  
Db 641 TGATCTGGGGTGTGCTTAC--ACAGAAATATCATTGTGCAGATGAAGAAACATCC---T 695  
QY 689 ACCAAGCAGTGTGCAACAGGACAGACCGGCTTCAATTGCTGAGCTGCCCAAGCCGGGC 748  
Db 696 ACACATCATGATGAAGATGGTA--AGGGGCCACCGCCAGAGCTGCCACCATCTGCAGAC 754  
QY 749 CTGAGACTCCCGCTTAGAAGACTGAAGAGCTAATGCAGCTGTGCTGAGCAGTGAAGC 808  
Db 755 CCCGGCCGCTGTGCTGTGCAAGCTGATAGGGCTCATGCAACGCTGCTGGCATGCAAGCC 814  
QY 809 CCAAGGACAGACCCCTCTTCCAGAGATGCTTACCAAAAACGTATGAAGTCTTCCAGATGG 868  
Db 815 CACAGGTGGGGCCCACTTCCAAAGAAATTAACCTCTGAACAGAAAGACCTTTGTGAGAGC 874  
QY 869 TGGAGAACAAATATGAATG 886  
Db 875 CTGATGAGGAGGTGAAG 892

Search completed: July 22, 2004, 16:33:25  
Job time : 137 secs

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